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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/003,915	11/02/2001	Anthony J. Mauro	460.2115USU	7768

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EXAMINER

WEBB, JAMISUE A

ART UNIT	PAPER NUMBER
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3761

DATE MAILED: 11/08/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/003,915

Applicant(s)

MAURO ET AL.

Examiner

Jamisue A. Webb

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-38 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-38 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.
- 4) ☐ Interview Summary (PTO-413) Paper No(s) \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Claim Rejections - 35 USC § 112*

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 7 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

3. Claim 7 recites the limitation "said quaternary ammonium compounds" in line 2. There is insufficient antecedent basis for this limitation in the claim. Claim six recites one or more quaternary compounds, which means it is a possibility of only one compound, yet claim 7 claims plural compounds.

### *Claim Rejections - 35 USC § 102*

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-3, 18, 20-22 and 37 are rejected under 35 U.S.C. 102(b) as being anticipated by Swanson (5,783,502).
6. With respect to Claims 1-3, 18, 20-22 and 37: Swanson discloses the use of a sheet material that can be used for things such as wound coverings, dressings, sponges and surgical

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articles (column 4, lines 36-49), where in the absorbent (see Claims 1 and 6), where the fabric is coated with an antiviral compound that is made up of quaternary ammonium groups such as alkyl ammonium compounds (column 6, lines 56-64), and a finishing compound that is used to immobilize the antiviral coating (column 7, lines 19-24).

***Claim Rejections - 35 USC § 103***

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

9. Claims 4-14, 17, 19, 23-32, 35-36, and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Swanson. (5,783,502) in view of Merritt (6,245,361).

10. With respect to Claims 4-6, 23, 25 and 26: Swanson discloses the use of quaternary ammonium compounds, but fails to disclose a specific compound. Merritt discloses the use of an antibacterial compound for use on skin (column 3, lines 58-62), that contains a bactericidal

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quaternary ammonium comprises mixtures of alkyl dimethyl benzylammonium chloride and alkyl dimethyl ethylbenzylammonium chloride (see Column 6, lines 52-60). It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the antiviral coating of Swanson be replaced with the antibacterial compound that contains the mixtures of alkyl dimethyl benzylammonium chloride and alkyl dimethyl ethylbenzylammonium chloride, as disclosed by Merritt, in order to provide an anti-viral composition that are effective in use at places such as hospitals, and medical clinics, and does not produce a harsh smell in order to be tolerable to people (see Columns 1 and 5).

11. With respect to Claims 7-9, 24, 27 and 28: Swanson discloses the quaternary ammonium compounds being used in percentages 1 and 4% (see Table 2).

12. With respect to Claim 10-14, 17, 29-32 and 35-36: Merritt discloses the quaternary ammonium compounds includes less than 15% of a surfactant that can be nonionic (column 7, lines 18-35).

13. With respect to Claims 19 and 38: See Merritt column 7, lines 50-55.

14. Claims 15, 16, 33 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Swanson and Merritt as applied to claims 1, 13, 14, 20, 31 and 32 above, and further in view of Hama et al (5,817,844)..

15. With respect to Claims 15, 16, 33, and 34: Merritt discloses the use of less than 25% of a surfactant and discloses the surfactant to be preferably nonionic, but fails to disclose the surfactant being a polyoxyethylene fatty acid ester. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have to have the nonionic

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surfactant of Merritt be polyoxyethylene, since it is known in the surfactant art, as demonstrated by Hama, that polyoxyethylene is a common and well used nonionic surfactant. (See Hama abstract and column 1, lines 7-20).

***Conclusion***

16. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Albien et al. (4,818,594), Ghosh et al. (6,090,399), Borgmann (5,840,744), Reinchr et al. (4,357,476), Acker et al. (4,628,048), Kellett (5,062,973), Smith et al. (5,869,410), and Diskler et al. (6,136,776) disclose the use of quaternary ammonium compounds.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jamisue A. Webb whose telephone number is (703) 308-8579. The examiner can normally be reached on M-F (7:30 - 4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on (703)308-1957. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9302 for regular communications and (703) 872-9303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1148.

jaw  
October 29, 2002

  
DENNIS RUHL  
PRIMARY EXAMINER